

# OS OPERATOR 2.0 GIESSE

Revolutionizing the Appearance  
and Performance  
of Out Swing Windows



 **GIESSE**®

# GIESSE OS OPERATOR 2

## Introduction

### Awning and Casement Window Hardware

#### OS Operator 2.0

Giesse never stands still, and has upgraded the OS Operator mechanism once again with the introduction of the new version 2.0. Outswing windows can now be fitted with locking points on 3 sides, greatly improving the Air/Wind/Water-tightness of the window, and its overall strength. The OS Operator 2.0 is also compatible with small window sizes, widely used and in demand on different markets.

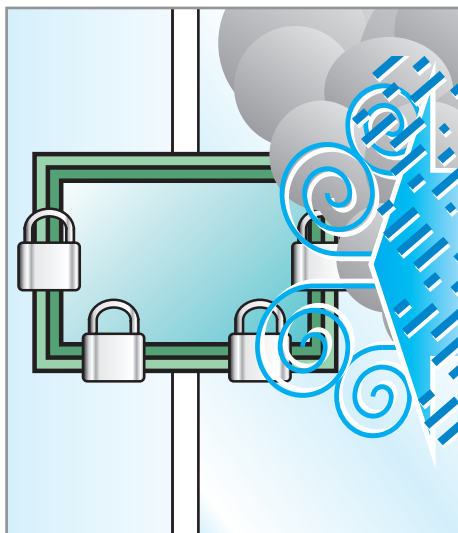
#### How it USED to be

Until now, anyone using outswing aluminum windows had only 2 options: Install cam handles and screens with wickets or rotary operators with multiple, separate locks. When limited openings were required, yet another piece of hardware was installed.



#### The NEW reality: Less is REALLY more

With Giesse's OS Operator 2.0, three functions are combined into one piece of hardware. With only a 180° movement of a single cremone handle, a user can now open and close a window, engage and disengage multiple locking points, and insure security and safety with a limited opening. And since all this functionality begins with a frame-mounted handle, screens are flat - and wickets are just a memory.

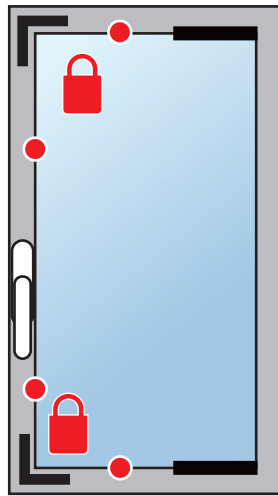


# GIESSE OS OPERATOR 2

## How it works

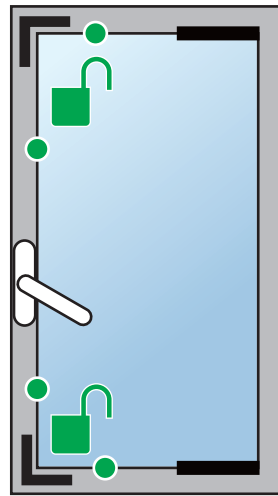
GIESSE's innovative design begins with a cremone handle and mechanism that are mounted to the frame. The mechanism includes a movement arm, a gear to transfer movement, and attached locking pawls. Keepers are attached to an integral groove in the vent.

At 0°, the window is closed and the locking points are secured. When the cremone is turned, the locking points release in the first 60° of handle rotation. During the next 120° of movement, the mechanism pushes the sash to the maximum opening based on the arm length. As the cremone rotates back to the closed position, the mechanism brings the vent back to the frame and engages the locking points.



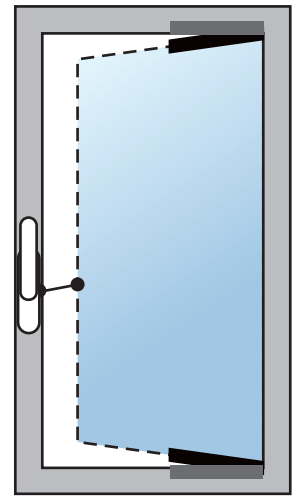
0°

**CLOSES AND  
LOCKS**



0°-60°

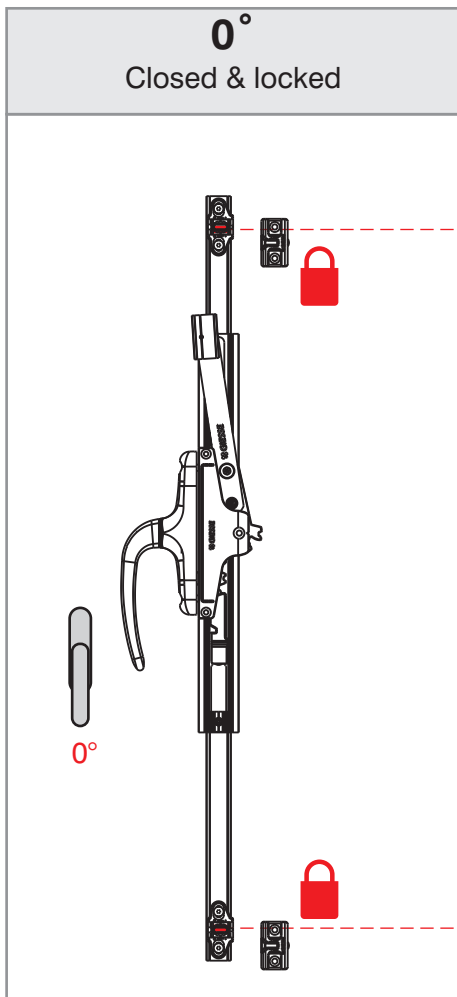
**DISENGAGES**



60°-180°

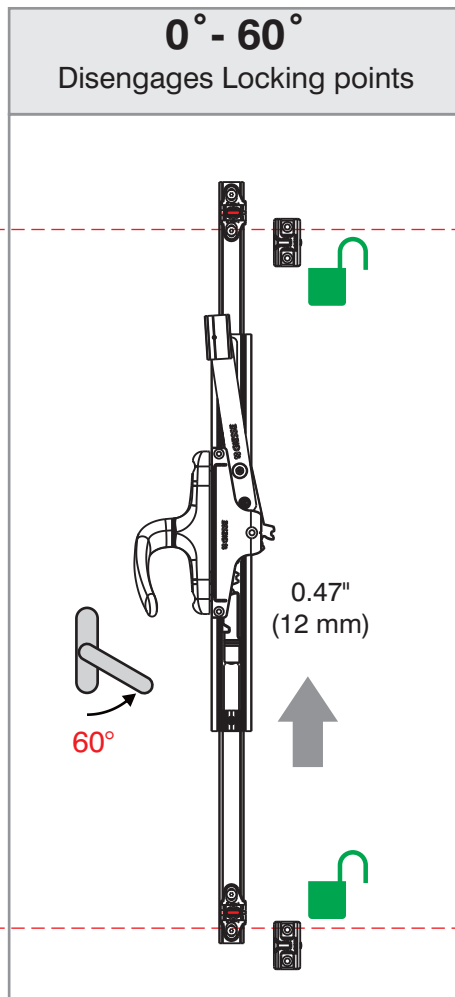
**OPENS**

Casement/Side-hung window example



0°

Closed & locked

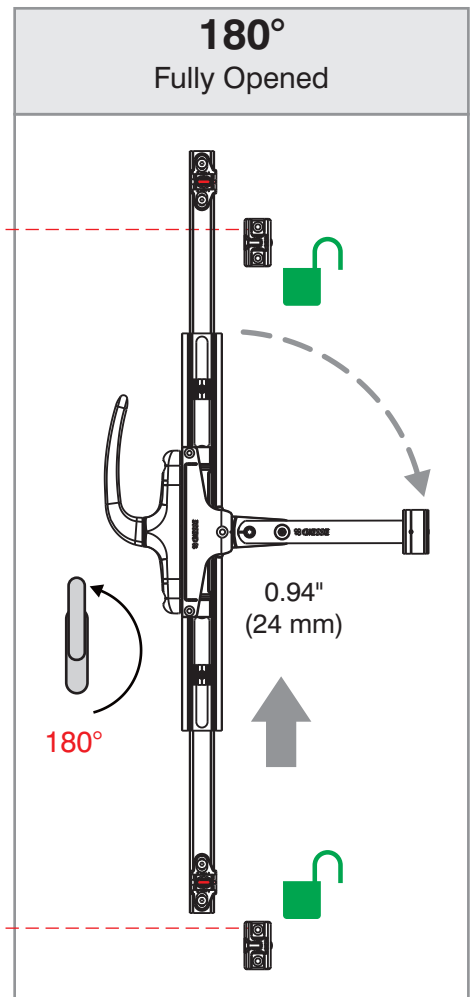


0° - 60°

Disengages Locking points

0.47"  
(12 mm)

60°



180°

Fully Opened

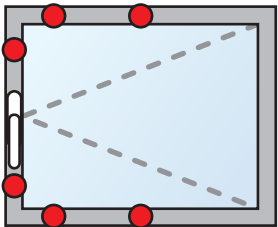
0.94"  
(24 mm)

180°

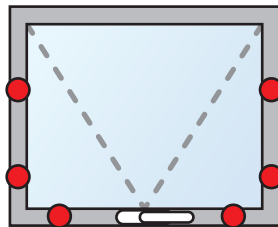
# GESSE OS OPERATOR 2

## The product

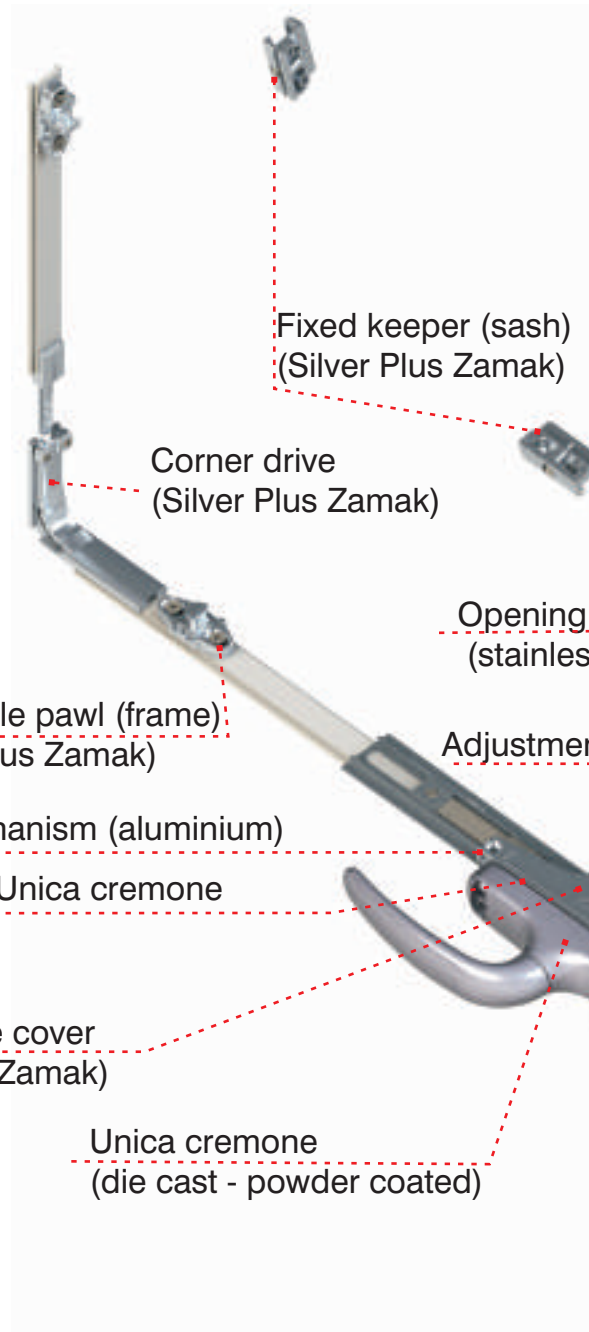
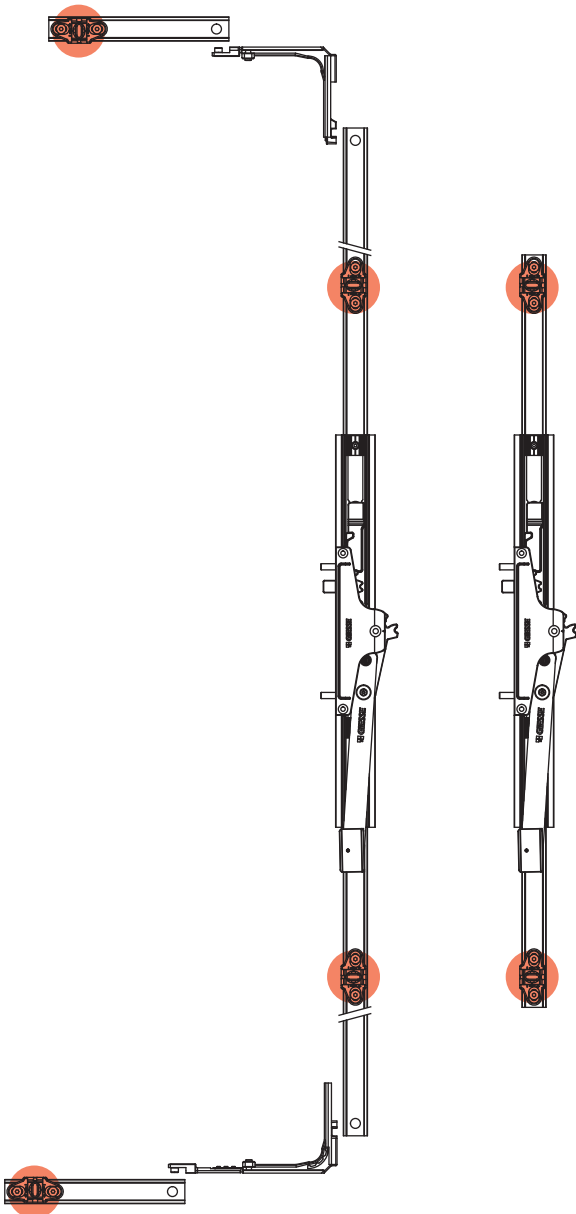
The OS Operator item 02009 can be mounted left or right handed, and is suitable for top-hung or side-hung windows. The cremone (handle), stay arm and locking points are sold separately and will be selected according to the particular design requirements. The window-manufacturer can install between 2 and 6 locking points on 3 sides of the window.



**SIDE HUNG  
CASEMENT**



**TOP HUNG  
AWNING**



Fixed keeper (sash)  
(Silver Plus Zamak)

Corner drive  
(Silver Plus Zamak)

Opening  
(stainless steel)

Adjustable pawl (frame)  
(Silver Plus Zamak)

Adjustment screw

Basic mechanism (aluminium)

Gasket for Unica cremone

Protective cover  
(Die cast Zamak)

Unica cremone  
(die cast - powder coated)

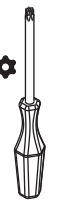
The limit stop has a custodial screw, allowing the vent to be easily opened fully for cleaning purposes.



Vent attached to  
limit stop



Vent disengaged  
from limit stop      Vent fully  
opened

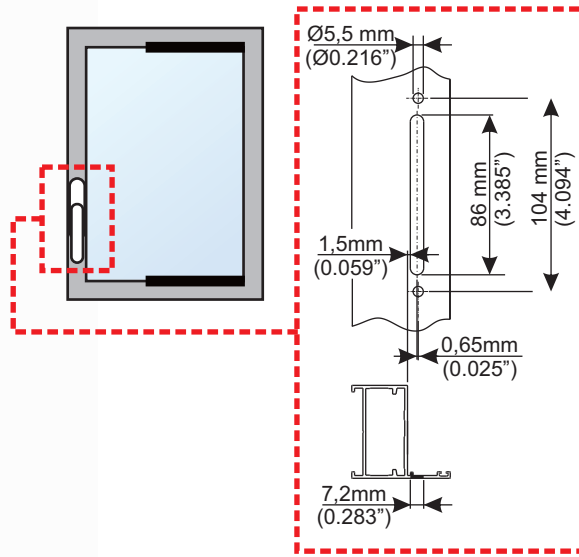


TORX T30

# GIESSE OS OPERATOR 2

The material composition of the OS Operator has been selected to provide the optimal combination of strength, durability, and corrosion resistance. It has been tested to 15,000 cycles with no loss of performance.

## Frame cremone fabrication

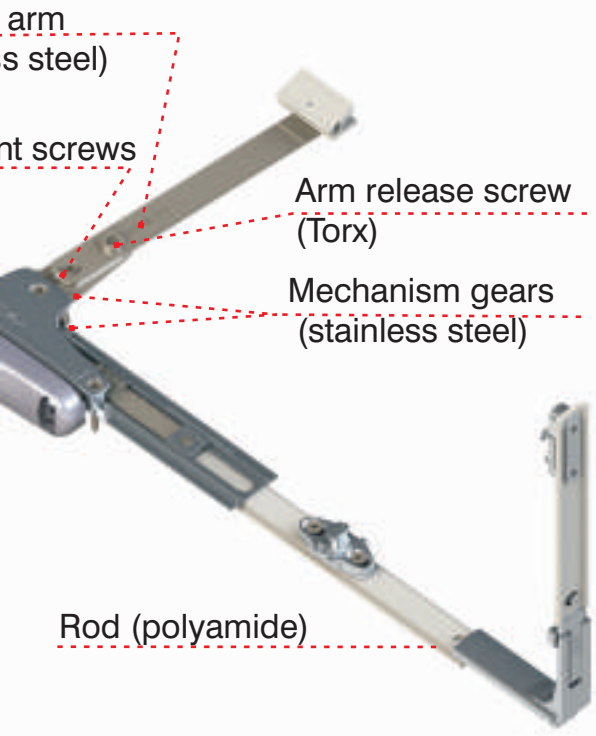


**UNICA CREMONE**

Code 01171... Unica  
Code 01172... Unica Key

**UNICA AWAY CREMONE**

Code 01127... Unica Away  
Code 01129... Handle



**ARM FOR OS OPERATOR**  
Length 172 mm (6 3/4")  
Code 02054 000 Slider in nylon  
Code 02064 000 Slider in aluminum

**CORNER DRIVE**  
Code 02066 000

**OS OPERATOR MAIN MECHANISM**  
Code 02009 000

**UNICA CREMONE LONG HANDLE**  
Code 01128...

**ARM FOR OS OPERATOR**  
Length 152 mm (6")  
Code 02055 000 Slider in nylon  
Code 02065 000 Slider in aluminum

**LOCKING POINT**  
Code 02067 000



# GESSE OS OPERATOR 2

## Technical details

### System Design for the OS Operator

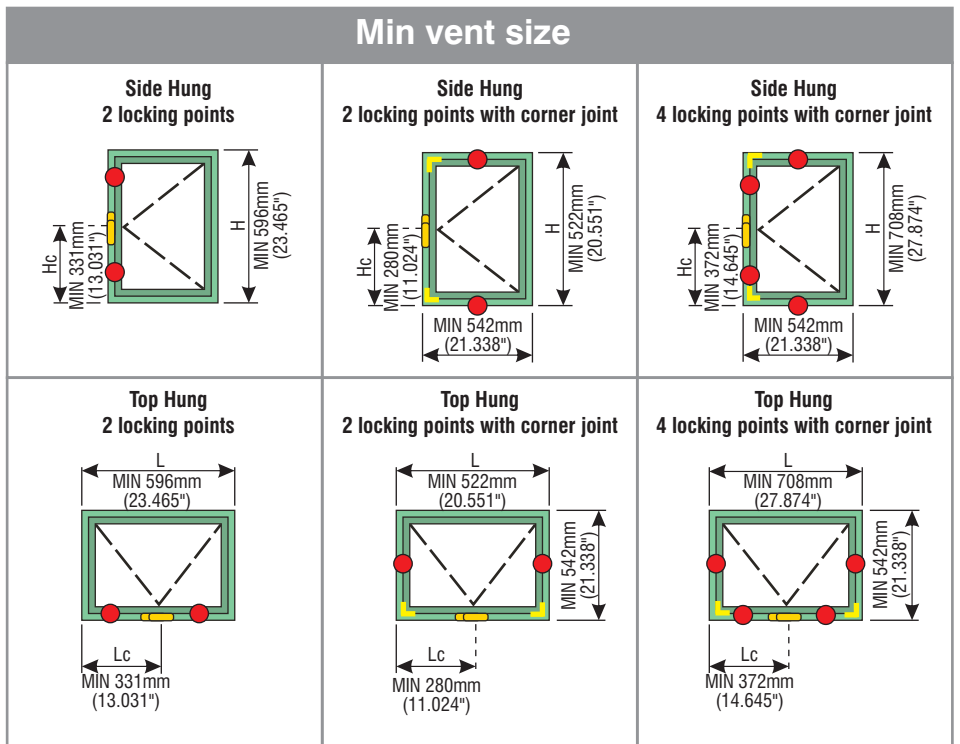
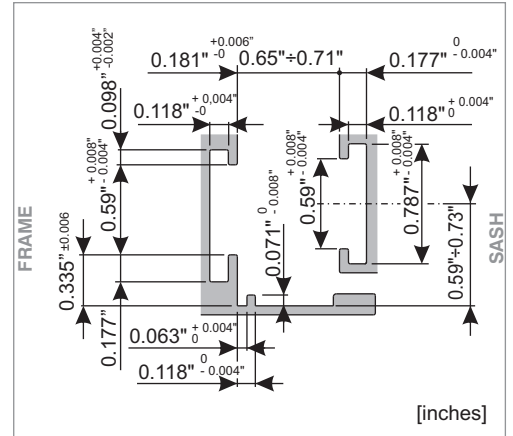
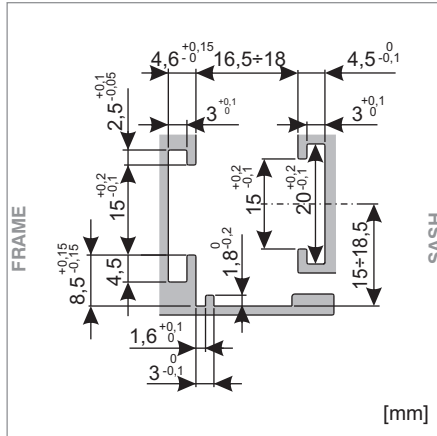
The OS Operator has been designed to work with a vent-to-frame clearances that allow for standard four bar hinges, with loose rivets.

For a detailed review of potential applications, please contact Giesse Engineering for assistance.

### Size Limitations

Overall size restrictions for windows utilizing the OS Operator depend upon many factors including the hinges utilized, glass size, windload requirements, and impact requirements.

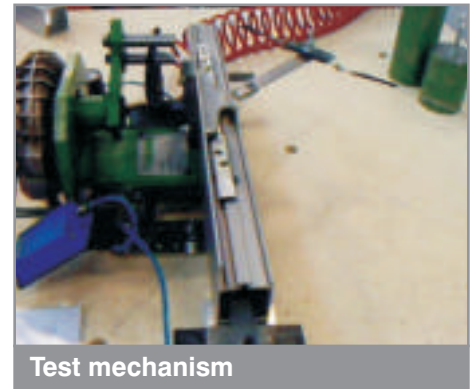
Indicated alongside are the minimum dimensions for certain of the configurations obtainable using the OS Operator 2.0 system. The minimum dimensions can vary depending on the number and position of locking points installed.



### Test Results

The OS Operator has passed cycle testing at 15,000 cycles for both an awning and casement windows at AAMA's gateway sizes.

In addition, the use of a single cremone handle in the OS Operator substantially improves air and water performance. Traditional systems with rotary operators and multiple locks – penetrate the frame with more and larger openings. Systems designed with the OS Operator can result in reduced air infiltration and higher water performance than these traditional systems.



# GIESSE OS OPERATOR 2

## Component summary

		Description	Item code	Length of mechanism mm	Length of mechanism inches	Pieces per box
<b>A</b>	Mechanism	OS Operator 2.0 basic mechanism	02009 000	317	12.480"	10
<b>B</b>	Arm	OS Operator arm - nylon slide - 172	02054 000	172	6 3/4 "	10
		OS Operator arm - nylon slide - 152	02055 000	152	6"	10
		OS Operator arm - aluminium slide - 172	02064 000	172	6 3/4 "	10
		OS Operator arm - aluminium slide - 152	02065 000	152	6"	10
<b>C</b>	Cremone	Unica cremone	01171...	120	4 23/32"	10
		Unica Key cremone	01172 ...	120	4 23/32"	10
		Long handle cremone	01128 ...	172	6 25/32"	10
		Away cremone (detachable handle)	01127 ...	/	/	10
		Handle for Unica Away cremone	01129 ...	172	6 25/32"	10
<b>D</b>	Locking point	Locking point (pawl + keeper)	02067 000			10
<b>E</b>	Corner cleat	Corner drive	02066 000			10
<b>F</b>	Connection rod	Rod cut from bulk roll, for 15/20 groove	03524 590 N (black)	200 m	656.17 ft	1
		Rod cut from bulk roll, for 15/20 groove	03524 542 N (grey)	200 m	656.17 ft	1
	Other items	Gasket for Unica cremone	06951 000			100
		Set of wrenches for fixing OS Operator hardware	02003 000			20

Note: for codes containing the characters "... " finish designation required.

